

Corte, Heinz.
A CONTRIBUTION TO POROSITY ANALYSIS PRE-
SENTED BY MEANS OF A STUDY OF CIGARETTE
FILTERS. [1962] 21p.
Order from K-H \$26.25 K-H 3769-a

Trans. of das Papier (West Germany) 1955, v. 9,
no. 13/14, p. 290-295.

DESCRIPTORS: *Porosity, *Cigarettes, *Porous
filters, Paper.

(Materials--Paper, TT, v. 8, no. 6)

62-17901

I. Corte, H.
II. K-H-3769-a
III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

The Influence of the Tensile Forces during
the Drying of Paper on the Behaviour of
Paper, by W. Brecht and D. Pothmann, 30 pp.

GERMAN, per, Das Papier, Vol IX, No 13-14
and 17-18, Jul and Sep 1955, pp 304-
311 and 429-437.

SLA 57-3311

Sci

Aug 58

72,480

The Application of Sodium Aluminate in Paper
Manufacture. Part I. The Influence on the
Retention of Pulp Without Resin Addition, by T.
Ploets, L. Schuring, 36 pp.

GERMAN, per, Das Papier, Vol IX, No 12³/14, Jul 1955,
p 311.

SLA Tr 57-932

Sci - Chemistry
Feb 58

58,504

Application to the Polystyrene Replica Technique to the Characterisation of Paper Surfaces, by G. Jayne and M. Harders-Steinhauser, 2 pp.

GERMAN, per, Das Papier, Sep 1955, pp 437-439.

SLA Tr 57-1726

Sci

Jul 58

67,943

Silicic Acid Fillers in the Paper Industry, by R.
Podschus and C. Klein, 9 pp.

GERMAN, per, Das Papier, Vol IX, No 23-24, Dec
1955, p 584.

SIA Tr 87-1736

Sci

Jul 58

67,950

Jayme, G. and Bergmann, W.
OXYGEN-INSENSITIVE ALKALINE CELLULOSE
SOLUTIONS (Über Sauerstoffunempfindliche
Alkalische Cellulose-Lösungen) tr. by H. A. G. Nathan
1961, 8p. 4 refs. NRCC Technical Trans. 989.
Order from NRCC \$0.50 NRCC C-3841

Trans. of das Papier (West Germany) 1956, v. 10,
no. 5/6, p. 88-90.

DESCRIPTORS: *Cellulose, Cellulose chemistry,
Chemistry, Organic solvents, Viscosity, Measure-
ment, Oxygen, Chemical reactions.

In continuing the investigations of the sodium-ferric-
tartaric acid complex, $[(C_4H_3O_6)_3Fe]Na_6$, dissolved
in sodium hydroxide solution, i.e. the new solvent
recently found by Jayme, the oxygen sensitivity of the
cellulose solutions thus obtained was studied. Vis-
(Materials--Paper, IT, v. 8, no. 7) (over)

62-12448

- I. Jayme, G.
- II. Bergmann, W.
- III. NRCC TT-989
- IV. NRCC C-3841
- V. National Research Council
of Canada

Office of Technical Services

Research at Zellstoffabrik Waldhof, by Hans Bockemuhl,
21 pp.

GERMAN, per, Das Papier, Vol X, No 78, 1956,
pp 123-134.

SLA 59-10156

Sci - Chem
Sep 59
Vol 2, No 1

97,744

Rough Preliminary Calculation of the
Effectiveness of Diffusion Washing, by H.
W. Schippel, 13 pp.

QUEMAN, per, Das Papier, Vol X, No 11-12,
Jun 1956, p 240.

SLA Tr 57-1737

801

Jul 58

67,951

TT-65-12002

Field 11L

Stroele, U.; Teves, D.
THE CONTROL OF PITCH PROBLEMS WITH DISPER-
SANTS. 20p. (7 figs omitted) 5 refs.
Order from SLA: \$1.60 as TT-65-12002

Trans. of das Papier (West Germany) v10 n13/14 p264-70
1956.

I. Stroele, U.
II. Teves, D.

MR 624

Study of the Determination of Wet Sheet Resistance
Factor During Rewatering by Means of Table Rolls,
by Herbert Mayar, 9 pp.

GERMAN, per, Das Papier, Vol. ~~13~~¹⁴, No 13/14, 1956,
pp 295-300.

SLA 59-10307

Sci
Nov 59
Vol 2, No 3

101,534

Beating Control With the ~~Inset~~ Fiber Separator, by
W. Erecht, A. Pohl, 9 pp.

GERMAN, per, Das Papier, Sep 1956.

SLA tr 57-1174

Sci - Engineering
Feb 58

58,498

The Effect of Wire Structure on Fibre Drainage
Study on Stationary Screen, by W. Brecht, H.
Erfurt and W. Volk, 13 pp.

GERMAN, per, Das Papier, Sep 1956, pp 395-402.

SLA Tr 57-1720

Sci

Jul 58

67,935

Properties of Spruce Sulphate Pulp in a State of
Biological Preservations, by G. Jayme, L. Kohler,
W. L. Haas, 19 pp.

GERMAN, per, Das Papier, Vol X, Nov, Dec 1956,
pp 405, 540.

SIA Tr 57-675

Sci - Biol

53,131

Sep 57

Ploetz, T. and Hohenachutz, H.
APPLICATION OF SODIUM ALUMINATE IN PAPER
MANUFACTURE. III. EFFECTS OF THE SYSTEM
ALUM-SODIUM ALUMINATE ON INITIAL WET
STRENGTH. 21963] 4p 3refs
Order from SLA \$1.10

63-18775

Trans. of das Papier (West Germany) 1956, v. 10,
p. 406-409.

DESCRIPTORS: *Papers, *Wood pulp, Preparation,
Additives, *Aluminum compounds, Ammonium com-
pounds, Sulfates, *Sodium compounds, *Aluminates,
Tensile properties.

A 3% consistency alum-sodium aluminate mixture was
added to a pulp of 70% pine groundwood and 30% un-
bleached pine sulfite kraft. The aluminum hydroxide
gels thus formed in the fiber slurry resulted in
significant increases in initial wet strength properties.
(Materials--Paper, TT, v. 10, no. 12) (over)

63-18775

I. Ploetz, T.
II. Hohenachutz, H.
III. Title: Effects...

Office of Technical Services

Some Determinations of the Surface Temperature of Drying Cylinders, by A. T. Carlender, 7 pp.

GERMAN, per, Das Papier, Vol X, No 17-18, 1956, p 413.

SIA Tr 57-1744

Sci

Jul 58

67,939

The Influence of Drying Strains on Some
Properties of Paper, by W. Brecht, A. Ger-
spach, and W. Hilderbrand, 13 pp.

GERMAN, per, Das Papier, Vol X, No 19-20,
Oct 1956, pp 454-458.

SLA Tr 57-1721

Sci

Jul 58

67,936

Dry Content and Initial Wet Strength After Laboratory
Suction Draining, by W. Brecht, A. Gerspach, 6 pp.

⁶²¹
GERMAN, *Das Papier*, Vol X, No 23-24, 1956, p 535.

SLA 58-258

Sci

Aug 59

94,187

Properties of Spruce Sulphate Pulp in a
State of Biological Preservation, by G. Jayne,
L. Kohler, W. L. Hans, 10 pp.

GZEMAN, per, Das Papier, Vol X, No 23/24,
1956, pp 540-545.

SLA 59-10157

Sci Chem
Jun 59
OTS I, 10

89, 716

Ploetz, T[heodor] and Scheuring, L[udwig].
THE APPLICATION OF SODIUM ALUMINATE FOR PAPER
MAKING. IV. THE INFLUENCE OF ALUMINATE ON
ROSEN SIZING. [1964] 16p 7 refs
Order from SLA \$1.60

TT-64-16043

Trans. of Das Papier (West Germany) 1956, v. 10,
no. 23/24, p. 546-53.
Another translation is available from SLA as 53-2639
(29p).

(Materials--Paper, TT, v. 12, no. 4)

TT-64-16043

I. Ploetz, T.
II. Scheuring, L.
III. Title: Influence ...

Office of Technical Services

The Distribution of Filler Through the
Cross Section of the Paper Thickness,
by H. Mack, B. Kieu, 3 pp.

GERMAN, per, Papier, Vol X, 1956, pp 564-
566.

CSIRO

Sci - Chem
Nov 61

SLA 57-2901

174,407

Progress in Research and Technique of
Wood Pulp in America, by T. N. Klein-
ert, 16 pp.

GERMAN, per, Das Papier, Vol XI, No 1-2,
Jan 1957, pp 14-21.

SLA 57-3191

Sci

Aug 58

72,511

The Influence of Various Chemical Auxiliary
Products in the Manufacture of Printing Papers,
by H. Wilfinger, 9 pp.

GERMAN, per, Das Papier, Vol XI, No 1-2, Jan 1957,
pp 106.

SLA Tr 57-835

Sci - Chem

53,122

Sep 57

Bucher, H[ans].
REACTIONS DURING THE PARCHMENTIZATION OF
PULP WITH SULFURIC ACID. [1960] 13p.
Order from ATS \$17.95 ATS-45M46G

Trans. of das Papier (West Germany) 1957, v. 11,
no. 7/8, p. 125-133.

Another translation is available from SLA ml\$2.40,
ph\$3.30 as 60-16801 [1960] [12]p.

146,914

(Materials--Paper, TT, v. 5, no. 5)

61-12399

1. Sulfuric acid--Chemical reactions
2. Wood pulp--Processing
- I. Bucher, H.
- II. ATS-45M46G
- III. Associated Technical Services, Inc., East Orange, N. J.

also OTS 60-16801

Office of Technical Services

Production Of Tannin and Pulp From Young Black
Locust Wood by G. Jayne and H. Segmler.

GERMAN, per, Das Papier, Vol XI, No 17/18, 1957,
pp 396-398.

CSIRO Tr 3872

Oct. 62

Caustic Concentration, X-Ray Pattern of Na
Cellulose I and Cellulose Xanthate and also
the State of Dissolution of the Viscose and
Their Correlations, by W. Koblitz, H. Klossig,
21 pp.

GERMAN, per, Das Papier, Vol XI, No 17/18,
1957, pp 399-407.

SLA 59-10281

Sci Chem
Jun 59
QTS I, 10

89, 717

94, 191

Secondary Fluorescence in Bleached Sulphite and Sulphate Pulp, by Georg Jayme, Gerhard Bauer, Marianne Harders-Steinhauser, 10 pp.

GERMAN, per, Das Papier, Vol XI, No 8 23/24, 1957, pp 536-539.

SLA 59-10279

Sai - Engr

OTS I, 9
Jun 59

89,542

The Ultra-Texture of Fibrous Materials, by Kurt
Bess, 30 pp.

GERMAN, per, Das Papier, Vol XI, No 23/24, 1957,
pp 553-562.

SLA 59-10280

Sci - Chemistry

Jun 59

OTB I, 10

89,751

Determination of Yield of Spruce and Beech Sulphite
Pulps by Means of D. P. Measurement, by Alfred
Ogait, 17 p.

GERMAN, per, das Papier, 1958, Vol XII, No 7/8,,
pp 126-136.

SLA 59-20052

Sci
Feb 60
Vol 2 No 10

108,904

Alkaline Solutions of Iron-Sulfuric Acid-
Sodium Complex (DMS) and Their Use in Cellu-
lase Chemistry, by G. Joyce, W. Bergman.

GUTHRIE, per, Parier, Vol XII, No 9/10.
1955, pp 187-196.

CSIRO

Ref - Chem
pp 18

207, 676

Instrumental procedures of the Micro-Analytical
Preparation Techniques, by H. Gerecht,
H. Halk, 1966.

GAZETTE, par, Papier, Vol XII, No 9/10, p 107-108
1966.

GAZETTE, par, Papier,

C.S.I.R.O.
SLA 58-1800

Sci - Phys

May 60

116/132

Effect of Sw⁶elling on the Beating Degree and
Strength Development of Sulphite Pulps in
Continuously Operating Stock Preparation Plant,
by F. Wultsch, L. Weissman,

GERMAN, per, Papier, Vol XII, No 9/10,
pp 204-210. 1958

C.S.I.R.O.
SLA 58-2682

Sci -

May 60

116,128

The Study of the Effect of Beating on Pulp, by
G. van Norderveen, 18 pp.

GERMAN, per, das Papier, Vol XII, No 11/12,
1958, pp 267-273.

SLA 59-15320

Sci
Doc 59
Vol 2, No 4

103, 111

Recent Experiences in Complete Planning of
Industrial Plants, as Demonstrated by Examples
from the Pulp and Paper Industry, by Paul
Gollwitzer, 25pp
GERMAN, per, das Papier, Vol 12, 1958, No 13/14
pp 318-334
SIA TT-64-16165

Sci - Mat
June 67

327,508

Study of the Determination of the Sizing Effect
According to Cobb, by Joseph Maltenbach, 16 pp.

GERMAN, per, Das Papier, Vol XII, No 13/14, 1958,
pp 342-350.

SLA 59-10985

Sci - Chemistry

Sep 59

Vol II, No 2

98,645

Development and Final Version of the Lignin
Determination Method According to Jayme-Knolle,
by Georg Jayme, Herbert Knolle, Gerda Rapp,
8 pp.

GERMAN, per, das Papier, Vol XII, No 17/18, 1958,
pp 464-467.

SLA 59-15362

Sci
Dec 59
Vol 2, No 4

103,116

Sorting of Paper According to Modern Points of
View, by H. Thier, 9 pp.

GERMAN, per, Das Papier, Vol XII, No 19/20, 1958,
pp 505-512.

SIA 59-15692

Sci

Nov 59

Vol 2, No 3

101, 521

Loosening of Fibre to Fibre Bonding in Wood
Through Pulping, by Hans Sadler, Othmar Trantina,
20 pp.

GERMAN, Der, das Papier, Vol XII, No 21/22, 1958,
pp 553-567.

SLA 59-15976

Sci
Jan 60
Vol 2, No 7

104,684

Juck, M[anfred]

FIBRE ALIGNMENT IN PAPER. Aug 60, 22p. (9 figs. omitted) 29 refs.

Order from SLA m \$2.70, ph\$4.80

60-18923

Trans. of das Papier (West Germany) 1958, v. 12, no. 21/22, p. 568-578.

Experiments are reported which indicate that any strict relationship between fibre and strength distribution with variable hydraulic conditions in the breast box and during sheet formation is unlikely.

(Materials--Paper, TT, v. 3, no. 2)

60-18923

1. Paper--Test methods
2. Fibers--Test methods
1. Juck, M.

142,796

Office of Technical Services

Water and Waste Water Systems of Illustration
Printing Paper Mills, by Walter Brecht, Fridolin
Zippel, 11 pp.

GERMAN, per, Das Papier, Vol XII, No 23/24, 1958,
pp 615-623.

SLA 60-10916

119,112

Sci
Jun 60
Vol XII, No 5

Effect on the Shape of Paper Machines on Sheet
Formation and Fibre Orientation, by H. Jult.
RESEARCH, per, Das Papier, Vol. 13, No. 3/4, 1959,
pp 41-54

Sol -

July 1959

304-418

The Behaviour of Papers When Their Moisture Content
Changes. Pt 1., by Walter Brecht., 9 pp.

GERMAN, from das Papier, Vol XIII, No 1/3, 1959,
pp 130-137.

SLA 59-10918

Sci
Dec 59
Vol 2. No 2

103, 114

Jayme, G. and Reimann, K.
THE DETERMINATION OF ROSIN IN THE CIRCULATING AND WASTE WATERS OF A PAPER MACHINE. Apr 61, 20p. (5 figs. omitted) 22 refs.
Order from SLA \$1.60 61-18266

Trans. of das Papier (West Germany) 1959, v. 13, no. 9/10, p. 190-200.

DESCRIPTORS: Organic materials, Inorganic substances, Water, Chemical analysis, *Paper industry, Precipitation, Separation, Production, Cellulose chemistry, *Resins, Determination, Wood pulp machines.

(Materials--Paper, TT, v. 7, no. 5)

61-18266

- I. Title: Rosin
1. Jayme, G.
- II. Reimann, K.

Office of Technical Services

The Behaviour of Papers When Their Moisture
Content Changes, Pt II, by Walter Brocht, 6 p.

QMSMH, par, Gas Papier, 1959, Vol XIII,
No 9/10, pp 201-207.

SLA 59-17046

Set
Doc 50
Vol 2, No 6

103,865

Tendency of Paper to Curling, by Walter Brecht,
Paul Raderer, Wolfgang Weitzel, 10 p.

GERMAN, per, das Papier, 1959, Vol XIII, No 11/12,
pp 237-244.

SLA 60-10128

Sol
Apr 60
Vol III, No 3

112,025

The Rheological Behaviour of Paper of Varying
Moisture Content When Subjected to Short Tensile
Strain, by W. Brecht, E. Fuhrbeck, 7 pp.

GERMAN, per, das Papier, Vol XIII, No 13/14,
1959, pp 293-301.

SIA 60-14010

Sci

OTS, Vol III, No 7

Nov 60

B/15

133,054

Beating of Hardwood Pulps for the Production of Various
Types of Paper, by F. Wultsch, 10 pp.

GERMAN, per, Das Papier, Vol XIII, No 17/18, 1959,
pp 407-413.

SLA 60-14284

Sci

169,952

Oct 61

Vol III, No 9

<p>Mack, H[elms]. A STUDY ON THE DISTRIBUTION AND RETENTION OF FILLERS IN PAPER. [1960] 13p. (16 figs. omitted) 20 refs. Order from SLA ml\$2.40, ph\$3.30 61-10392</p> <p>Trans. of das Papier (West Germany) 1959, v. 13, no. 19/22, p. 459-469.</p> <p>147,043</p> <p>(Materials--Paper, TT, v. 5, no. 5)</p>	<p>61-10392</p> <p>1. Paper--Analysis I. Mack, H.</p> <p>Office of Technical Services</p>
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Cadoxen, A New, Colorless, Aqueous Solvent for
Cellulose and Its Application, by Georg Jayme.
9 pp.

GERMAN, per, Das Papier, Vol XII, No 23, 1956,
pp 624-632.

SLA 60-1627.

Sci

188,064

Vol 4, No 1

Mar 62

The Characterization of the Behaviour of Cellulose
by Means of Crystal Violet Base, by Marius Rebek,
Heinrich Beck, 6 pp.

GERMAN, per, Das Papier, Vol XIII, No 1/2, 1959,
pp 1-5.

SLA 59-10386

Sci
Dec 59
Vol 2, No 4

103,101

^p
Optical Brighteners in the Paper Industry and
Their Evaluation by Colorimetric Measurements, by
Anni Berger, Hans Unterbirkner, 9 p.

GERMAN, per, das Papier, 1959, Vol XIII, No 1/2,
pp 5-12.

SLA 59-17062

Sci
Dec 59
Vol 2, No 6

103, 963

Model Tests Concerning the Application of Starch
and CMC in Sizing Presses, by O. Arnoberg.

GERMAN, per, Papier, Vol XII, No 5/6, 1958,
pp 81-86.

CSIRO

Sci - Chem

Jun 61

156,926

<p>Bacs, Sandor. SANITARY TISSUES. Oct 60, 4p. Order from SLA m\$1.00, ph\$1.00 61-10308 Trans. of Papiripar (Hungary) 1959, v. 3, no. 4, p. 146-148. (Materials--Paper, TT, v. 5, no. 12)</p>	<p>61-10308 1. Paper--Production 2. Title: Sanitary tissues 1. Bacs, S. 148554 Office of Technical Services</p>
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Importance of Smoothness, by Ernst Beyer, 3 p.
GERMAN, per, Das Papier, 1959, Vol XIII, No 5/6.
pp 85-92.

SLA 59-17083

Sci
Dec 59
Vol 2, No 6

103,964

The Influence of wire ⁶stake on the Technological
Properties of Paper, by M. Jadt, 10 pp.

GERMAN, per, Das Papier, Vol XIII, No 19/20,
1959, pp 403-406.

SLA 60-16271

Sci

Vol 4, No 1

Mar 62

188, 065

Novel Method of Measurement of Smoothness and
Uniformity of Smoothness on Papers and Boards, by
Walter Brecht, Hermann Gecsen, 14 pp.

GERMAN, per, Das Papier, Vol XIII, No 21/22, 1959,
pp 519-530.

AL
SLA 60-10922

119,111

Sci
Jun 60
Vol III, No 5

Changes in Colloid-Chemical Properties of Cellulose
Fibres Produced by High Frequency Treatment, by
G. Jayme

GERMAN, per, Papier, No 25/24, 1959, pp 578-583.

GB/15

Sci
Dec 62

Brecht, W. and Erfurt, H.
NEW DATA ON THE TENSILE STRENGTH OF
PAPERS. [Sep 60] 13p. (14 figs. 2 graphs omitted)
19 refs.

Order from SLA ml\$2.40, ph\$3.30 61-10207

Trans. of das Papier (West Germany) 1959, v. 13,
no. 23/24, p. 583-592.

A new apparatus is described which enables the stress-strain properties of paper to be determined within the total range of solid contents of 13% to 90%. The device functions with a constant rate of extension which can be varied over wide limits. The flow behaviour of initially wet papers was studied, and an investigation was made of the influences exercised by fibre swelling, beating, and the changes in the composition of the structural elements occurring during beating on the relationship between solids content and tensile strength. The results supplied a comprehensive picture of the laws and other factors affecting the (Materials--Paper, TT, v. 5, no. 2) (over)

61-10207

- I. Paper--Tensile properties
- I. Brecht, W.
- II. Erfurt, H.

141,137

Office of Technical Services

Changes in Colloidal-Chemical Properties of Cellulose
Fibers Produced by High Frequency Treatment, by
George Jayne, Horst Cronert, ~~XXXXXXXX~~ Walter Neuhaus,
EXXX 6 pp.

GERMAN, per, das Papier, Vol XIII,
No 23/24, 1959, pp 578-583.

SLA 61-10769

Sci
Aug 61

162,795

Testing Various Grades of Paper with the FOGRA
Printability Testes, by F. Tultsch,
K. Schubert.

XXGERMAN, per, Papier, Vol XIII, No 23-24,
1959, pp 600-607.

GB-205

Sci
Dec 62

Investigations Concerning the Growth of
Fusarium Aqueductum Lagh on the Waste Waters
of the Sulphite Pulp Industry, by L. Scheuring,
et al, 6 pp.

GERMAN, per, Das Papier, Vol XIV, No 1,
1960, pp 1-3.

SLA 60-16637

Sol
Vol IV, No 7
Apr 62

192, 634

Jayne [George, Crönert, Horst, and Neuhaus, Walter].
 CHANGES IN COLLOID-CHEMICAL PROPERTIES OF
 CELLULOSE FIBRES PRODUCED BY HIGH FRE-
 QUENCY TREATMENT, II. Jan 61, Sp: (18 figs
 6 tables omitted) 1 ref.
 Order from SLA m\$1.80, ph\$1.60 61-10740

Trans. of das Papier (West Germany) 1960, v. 14,
 no. 1, p. 5-11.
 Another translation is available from SLA m\$1.80,
 ph\$1.60 as 60-18504 [1960] [10]p.

The machinery used in high-frequency treatment is
 described. (See also 60-18503)

(Materials--Wood, TT, v. 5, no. 10)

61-10740

1. Wood pulp fibers--Physical properties
2. Ultrasonic radiation--Physical effects
3. Stirrers--Design
 - I. Jayne, G.
 - II. Crönert, H.
 - III. Neuhaus, W.

151610

Office of Technical Services

Jayme, G[George, Cronert, Horst, and Neuhaus, Walter].

CHANGES IN COLLOID-CHEMICAL PROPERTIES OF CELLULOSE FIBERS PRODUCED BY HIGH FREQUENCY TREATMENT. III. Jan 61 (10)p. (7 tables omitted) 20 refs.

Order from SLA ml\$1.80, ph\$1.80 61-10742

Trans. of das Papier (West Germany) 1960, v. 14, no. 2, p. 53-66.

A discussion is presented of the influence of ultrasound and mechanical high-frequency treatment on the morphologically determined reactivity of rayon pulps. (See also 61-10740)

61-10742

1. Wood pulp fibers--Physical properties
2. Ultrasonic radiation--Physical effects
3. Stirrers--Design
- I. Jayme, G.
- II. Cronert, H.
- III. Neuhaus, W.

151730

Office of Technical Services

(Muegler--Wood, TT, v. 5, no. 10)

Progress in Swedish Sulphite Pulp Research,
by L. Stockman, 8 pp.

GERMAN, per, Das Papier, Vol XIV, No 3,
1960, pp 85-91.

SLA 60-18099

Sci
Vol IV, No 9
Mar 62

187, 129

New Resin and Lignin Reaction for the Identification of Pulps, by E. Kuhlmal, 6 pp.

GERMAN, per, das Papier, Vol XIV, No 3, 1960, pp 96-99.

SLA 61-20667

Sci
Mar 62
Vol VII, No 3

188,082

Buchner, Norbert.

THE GAS PERMEABILITY OF CELLOPHANE AND
CELLOPHANE COMBINATION FILMS AT DIFFER-
ENT RELATIVE HUMIDITIES (Gasdurchlässigkeit
v. Zellophan- und Zellophan-Kombinationsfolien).

ITA 2140 [26] p. 12 text.

Order from SLA \$2.60

61-16723

Trans. of the Papier (West Germany) 1960, v. 14
[no. 4] p. 123-130.

Another translation is available from SLA ml\$2.40,
ph\$3.30 as 60-18083 [1960] 17p.

DESCRIPTORS: *Plastic films, *Ethylenes, *Gases,
Humidity.

The permeability of unlacquered cellophane, cello-
phane lacquered with nitro cellulose and combination
films of cellophane/polyethylene was measured for
different gases within relative humidity range of
(Materials--Plastics, TT, v. 6, no. 7) (over)

61-16723

L. Buchner, N.

OTD
60-12673

181718

Office of Technical Services

phenomena in Swelling and Dissolution of
Fibrous Plant Cells in New Solvents, by
G. Jayme, M. Harders-Steinhauser, 10 pp.

GERMAN, per, das Papier, Vol XIV, No 6,
1960, pp 228-234.

ATS-~~2144~~48
3

Sci

196, 868

May 62
Vol 4, No 10

The Kinematic High Frequency Process of
Professor Willems, by P. Willems,
4 pp.

GERMAN, per, Das Papier, Vol XIV, No 7,
1960.

SLA 60-18082

Sci
Vol IV, No 9,
Mar 62

187, 019

On the Measurement of the Rigidity of
Paper, Carton Board and Board, I, by
W. Brecht, F. Muller, 10 pp.

GERMAN, par, Das Papier, Vol XIV,
No 7, 1960, pp 270-277.

SLA 60-18098

Sci
Vol IV, No 9
Mar 62

187, 127

The Distribution of Auxiliary Substances in the
Circulation of a Paper Machine at Application of an
Acid Rich Size (Hagold), by G. Jayme, W. Dammig.

GERMAN, per, das Papier, Vol XIV, No 7, 1960,
pp 278-283.

SLA 61-18268

Sci
Mar 62

Vol VII, No 2

189,522

Rack, R. and Rack, H.
ELECTRON MICROSCOPIC INVESTIGATION OF
GREENWOOD PINES, I. May 61, 11p. (12 figs.
omitted) 1 refs.
Order from SLA \$1.60

61-20195

Trans. of the Paper (West Germany) 1960, v. 11,
no. 9, p. 399-410.

DESCRIPTORS: *Electron microscopy, *Pine, *Wood
pulp, *Paper, *Ultraviolet optical material, Densitometry.

(Miscellaneous Wood, II, v. 8, no. 6)

61-20195

I. Rack, R.
II. Rack, H.

Office of Technical Services

Comparison on the Retention of Rosin Acids on
the Papermachine Wire in the Presence of Various
Additives, by Georg Jayme, Werner Demmig,
25 pp.

GERMAN, per, das Papier, Vol XIV, No 9,
1960, pp 408-414.

SLA 61-10015

Sci

Apr 61

146,103

Brecht, W. and Muller, F.
STIFFNESS TESTING OF PAPER, CARTON, AND
BOARD. (II). Apr 61, 12p. (12 figs. omitted).
Order from SLA \$1.60 61-16464

Trans. of das Papier (West Germany) 1960, v. 14,
no. 9, p. 416-422.

DESCRIPTORS: *Paper, Mechanical properties, Test
equipment, Stresses.

It was found that the majority of the different procedures
and instruments characterise rigidity only on a relative
basis and indirectly. The fundamental difference in the
bending behaviour of elastic and elasto-plastic mate-
rials was theoretically demonstrated and it was shown
that a distinction has to be made between two cases when
subjecting paper to bending stresses. One case is char-
acterised by such slight bending of the sample that the
strain at the sample surface does not exceed the region
(Materials--Paper, TT, v. 6, no. 6) (over)

61-16464

- I. Brecht, W.
- II. Muller, F.
- III. Title: On the Measurement
of the Rigidity of Paper,
Carton Board and Board,
II.

176530

Office of Technical Services

Linde, F[riedrich].
PROBLEMS IN THE TECHNIQUE OF MEASURING
AT THE DRY END OF PAPER MACHINES. June 61.
8p. (2 figs. omitted) 5 refs.
Order from SLA \$1.10

61-18571

Trans. of das Papler (West Germany) 1960, v. 14,
no. 10, p. 453-457.

DESCRIPTORS: *Paper, Dehydration, Measurement,
Machines, Heat transfer, Quality control,
Instrumentation.

The thermal problems, such as temperature distribu-
tion and heat transfer encountered during the drying of
papers by means of steam-heated drying cylinders are
investigated, possible methods of measurement are
discussed, together with the most suitable installation
points for measuring equipment. It is preferable to
check the steam consumption of the individual drying
cylinders, as compared with steam pressure measure-
(Materials--Paper, TT, v. 8, no. 5) (over)

61-18571

I. Linde, F.

Office of Technical Services

61-20666

Wulsch, F[erdinand] and Schubert, K[arl].
IMPROVING THE PRINTABILITY OF PAPERS BY
THE ADDITION OF STRAW PULP. Sep 61, (5 figs.
omitted) 6 refs.
Order from SLA \$1.10

61-20666

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10, p. 458-461.

DESCRIPTORS: *Paper, Printing, Straw, Cellulose,
Additives, Manufacturing methods.

I. Wulsch, F.
II. Schubert, K.

(Materials--Paper, TT, v. 8, no. 4)

Office of Technical Services

<p>Rydholm, Sven A. MULTISTAGE COOKING. [1961] (8 figs. omitted) 110 refs. Order from SLA \$1.10</p> <p>Trans. of <u>das Papier</u> (West Germany) 1960, v. 14, no. 10a, p. 535-541.</p> <p>DESCRIPTORS: *Wood pulp, Processing. A survey.</p> <p>(Materials--Wood, TT, v. 6, no. 6)</p>	<p>61-10759</p> <p>I. Rydholm, S. A.</p> <p>176509</p> <p>Office of Technical Services</p>
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Jayme, G. and Hunger, G.,
PULP AND PAPER AS VIEWED STEREOSCOPICALLY
BY THE ELECTRON MICROSCOPE. [1961] 4p.
(16 figs. omitted)
Order from SLA \$1. 10

62-10276

Trans. of das Papler (West Germany) 1960, v. 14,
no. 10a, p. 550-553.

DESCRIPTORS: Cellulose, *Wood pulp, *Paper,
Electron microscopes, Stereoscopes.

An attempt is made in this lecture to show how our
knowledge of the fine structure of cellulose pulps and
their structural modification under various influences
may be broadened and deepened by stereoscopic ob-
servation. This was done by showing and comparing
ordinary electron-micrographs with stereo pairs.
(Author)
(Materials--Paper, TT, v. 7, no. 9)

62-10276

I. Jayme, G.
II. Hunger, G.

Office of Technical Services

Brecht, W[alter] and Müller, F[riedrich].
ABOUT THE HANDLE OF PAPER. 1961. 16p.
(13 figs. omitted) 26 refs.
Order from SLA \$1.60

61-10886

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, pp. 554-564.

DESCRIPTORS: *Paper, Physical properties, Mechan-
ical properties, Tests.

The definition, "handle", referring to the "feel" of
paper is examined and an attempt is made to relate it
to objective measurement. Some 43 papers of different
"handle" were distributed among 5 basis-weight ranges
for individual assessment by trade observers. Those
tactile properties (bending stiffness and thickness)
enabling the classification by "handle" by the expert
were measured, yielding a correlation between sub-
jective assessment and actual measurement (Spearman
order of merit correlation coefficient 0.986). The
(Materials--Paper, TT, v. 6, no. 1) (over)

61-10886

I. Brecht, W.
II. Müller, F.

161624

Office of Technical Services

Nordman, L[ars] and Aaltonen, P[ertti].
INVESTIGATIONS ON SOME METHODS FOR THE
CHARACTERISATION OF THE BEATING STATE OF
PULP. Feb 61, 14p. (20 figs. omitted) 8 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10931

Trans. of das.Papier (West Germany) 1960, v. 14,
no. 10a, p. 565-574.

(Materials--Paper, TT, v. 5, no. 11)

61-10931

1. Paper--Production
2. Wood pulp--Test methods
1. Nordman, L.
11. Aaltonen, P.

105886

Office of Technical Services

61-20513

Holte, T[orgrim] and Gregersen, A[iv].
METHOD FOR GRAVIMETRIC DETERMINATION OF
THE FLUFFING OF BOXBOARD. Oct 61, 6p. (10 figs.
omitted).
Order from SLA \$1.10

61-20513

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 575-580.

DESCRIPTORS: *Containers, *Wood pulp, Surfaces,
Processing, *Paper industry, Gravimetric analysis,
Particles, Films, Adhesion.

1. Title: Fluffing
- I. Holte, T.
- II. Gregersen, A.

(Materials--Paper, TT, v. 8, no. 4)

Office of Technical Services

Brecht, W. and Pohl, A.
THE CONDITIONING OF PAPER AND ITS EFFECTS.
[1961] 15p. (16 figs. omitted) 15 refs.
Order from SLA \$1.60

61-16804

Trans. of the Paper (West Germany) 1960, v. 14,
no. 10, p. 100-102.

DESCRIPTORS: Paper, Quality control, Physical
properties, Tests.

A paper which has been subjected to a continuous
process cycle will, after a sufficient number of cycles,
attain a constant reaction, but will also show in drying
a greater shrinkage and on reconditioning a smaller
expansion than in the unconditioned state. Conditioned
paper will remain flatter than unconditioned only as
long as the climatic conditions to which, through con-
ditioning its moisture content was adjusted, do not
change. Measurements taken on an atomising humidifi-
cation machine showed that the principle of electro-
(Materials--Paper, TT. v. 6, no. 4)

(over)

61-16804

I. Brecht, W.
II. Pohl, A.

177671

Office of Technical Services

Barnscheider, Wolfgang and Schildler, Max.

INVESTIGATIONS FOR ASCERTAINING THE OPTIMAL
DEWATERING METHODS FOR DRYING CYLINDERS
WITH RESPECT TO HEAT-TRANSFER AND POWER-
CONSUMPTION. (1962) 11p. (37 figs. omitted).

COVERED BY: 62-14673

From: *Zeitschrift für Angewandte Chemie* (West Germany) 1960, v. 14,
no. 10, pp. 400-404.

INDEXED BY: *Heat transfer, *Cylindrical bodies,
Condensation, *Dehydration, Power supplies,
Helices, Water, Steam condensers, Velocity, Turbu-
lence, Vapor pressure, Machinery, Construction.

For obtaining results utilizable directly in the practice
there was set up a steam-heated cylinder of diameter
1.5 meters and width 5 meters. The condensation water
in the cylinder forms at low velocities a sump and at
(Machinery, Fabrications and Accessory Equipment,
TT, v. 9, no. 5) (over)

62-14673

I. Title: Dewatering
1. Barnscheider, W.
II. Schildler, M.

Office of Technical Services

Brecht, W. and Hildenbrand, W.
ABOUT THE DIMENSIONAL STABILITY OF PAPERS.
Mar 61, 18p. (21 figs. omitted) 79 refs.
Order from SLA \$1.60

61-14905

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 610-624.

DESCRIPTORS: *Paper, Quality control, Physical
properties, Tests.

An apparatus has been designed which yields curves
during paper tests recording the changes arising from
the moisture content during a change of climatic con-
ditions and the changes of dimensions of the papers as
a function of time. The results of ample investigations
show how different production conditions influence the
relation between climatic conditions and dimension
changes and affect the speed of these reactions. (Author

(Materials--Paper, TT, v. 6, no. 1)

61-14905

I. Brecht, W.
II. Hildenbrand, W.

161762

Office of Technical Services

61-10903

Jayne G[orge] and Demmig W[erner].
THE RETENTION OF VARIOUS STARCH, CMC AND
ALGINATE TYPES ON THE MACHINE WIRE
SCREEN. Feb 61, 6p. (5 figs. 4 tables omitted)
11 refs.
Order from SLA m\$1.80, ph\$1.80 61-10903

Trans. of das Papier (West Germany) 1960, v. 14,
no. 10a, p. 625-630.

Tests were made to determine the retention on the
wire retaining trap of paper machines of the oxygen
consuming substances, starches, carboxymethyl-cellu-
lose, and alginic acids. Kaolin, titanium dioxide and
rosin size reduced the retention of these substances.

1. Paper industry--Equipment
2. Chemical waste--
Analysis
1. Jayne, G.
11. Demmig, W.

10903

Office of Technical Services

(Materials--Paper, TT, v. 5, no. 11)

Muller-Rid, W., Stark, A., and Pausch, G.
THE QUALITY OF THE FORMATION AS A CONSEQUENCE OF CONSTRUCTIVE AND OPERATIVE FACTORS. [1961] 22p. (22 figs. omitted) 14 refs.
Order from SLA \$2.60 61-20485

Trans. of das Papier (West Germany) 1960, v. 14, no. 12, p. 697-709.

DESCRIPTORS: *Paper, Paper industry, Production, Industrial equipment.

Hydrodynamic measurements, which have been carried out in the laboratory at models and at normally sized stuff distributors and stock inlets, show that only a firm knowledge about the hydrodynamical behaviour of the construction elements enables the constructor to project and to dimension stuff distributor
(Materials--Paper, TT, v. 7, no. 7) (over)

61-20485

I. Muller-Rid, W.
II. Stark, A.
III. Pausch, G.

Office of Technical Services

Jayne, G. and Jerratech, H. J.
THE K₂ METHOD, A MODIFIED KAPPA NUMBER
DETERMINATION FOR SEMI-CHEMICAL PULPS OF
MORE THAN 70% YIELD. Mar 61, 9p. (4 figs.
omitted) 6 refs.
Order from SLA \$1.10

61-14924

Trans. of the Paper (West Germany) 1960, v. 14,
no. 12, p. 718-723.

DESCRIPTORS: *Wood pulp, *Potassium,
*Permanganates, Oxidation, Determination.

(Chemistry--Analytical, TT, v. 6, no. 1)

61-14924

I. Jayne, G.
II. Jerratech, H. J.

161763

Office of Technical Services

61-16120

Brecht, W[alter] and Erfurt, H[orst].
OBSERVATIONS ON THE STRETCH OF PAPER.
Mar 61, 19p. (14 figs. omitted) 28 refs.
Order from SLA \$1.60

61-16120

Trans. of ~~das Papier~~ (West Germany) 1960, v. 14,
no. 12, p. 723-736.

DESCRIPTORS: *Paper, Wood pulp fibers, Mechanical
properties, Physical properties, Tests.

A previously described apparatus (das Papier 13: 583,
1959; available in translation from SLA as 61-10207)
was used to study the effects which the solid content of
the paper, the type of fibres used and their degree of
beating, and the structural character of mechanical and
chemical pulps exert on the extensibility of papers.

(Materials--Paper, TT, v. 6, no. 4)

I. Brecht, W.
II. Erfurt, H.

177640

Office of Technical Services

Transparency and Reflectance of Paper, Theory, and
Measuring Methods, 18 pp.

by J. J. and R. J. J. J. 1668
GERMAN, per, Die Papier, Vol XV, No 7/8, Apr 1959,
pp 141-149.

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Sci - Physics
Jan 60

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Ogalt, A.
A RAPID METHOD FOR DETERMINING HARMFUL
PITCH IN SOFT-WOOD PULPS. [1961] 5p. (4 figs.
omitted) 11 refs.
Order from SLA \$1.10 61-20189

Trans. of das Papier (West Germany) 1961, v. 15,
no. 1, p. 10-16.

DESCRIPTORS: *Wood pulps, *Pitch, Determination,
Separation, Flotation, *Paper industry, Chemical
engineering.

Details are given of a rapid method for determining
harmful pitch in coniferous wood pulps which, as
compared with previous methods, has the advantage
of providing results within a relatively short period
and is also capable of use for routine determination.
(Minneapolis Paper Co., Ed., v. 7, no. 15) (encl)

61-20189

I. Ogalt, A.

Office of Technical Services

Practical Investigations Concerning Fresh and
Backwater Problems in Paper Machines, by
F. Wultsch, K. Maier.

GERMAN, per, Papier, Vol XV, No 4, 1961, pp 130-134.

GB/167/Reprint 2510

301-Engr
Feb 63

222,595

62-17249

Fahmy, Yehia and Abu-State, Amin.
INFLUENCE OF MORPHOLOGICAL, CHEMICAL
AND SOME PHYSICAL PROPERTIES OF THE PULP
ON THE FILTERABILITY OF THE VISCOSES. Pt. 1
On the Testing of Rayon Grade Pulps. May 62, 5240
words.
Order from LSA \$50.00

Trans. of das Papier (West Germany) 1961, v. 15,
no. 5, p. 44-51

DESCRIPTORS: *Wood pulp, Chemical properties,
Physical properties.

(Materials--Paper, TT, v. 8, no. 2)

- I. Fahmy, Y.
- II. Abu-State, A.
- III. Title: On ...
- IV. Literature Service
Associates, Bound
Brook, N. J.

Office of Technical Services

CLEANLINESS IN THE CIRCULATION OF THE
WATER SYSTEM. May 61, 3p.
Order from SLA \$1.10

61-18805

Trans. of das Papier (West Germany) 1961, v. 15,
no. 3, p. 109-110.

DESCRIPTORS: *Water supplies, Paper industry,
*Purification, Chemical wastes, Drainage, Sanitary
engineering.

Remarks made by Dr. Konrad Wernicke at a lecture
on December 9, 1960 to the Study Committee on
"Water, waste water and effluents" of the Chemical
Pulp and Paper Institute are given. These remarks
concerned the Interim Directives dated June 1960 for
requirements concerning the composition of effluents
(Engineering - Sanitation, IT, v. 6, no. 10)

61-18805

1. Title: Antipollution
1. British Paper and Board
Industry Research
Association

Office of Technical Services

Werr, F.
THE DETERMINATION OF THE GREASE RESIST-
ANCE OF PAPERS, PT. 1. [1961] 12p. (1 fig.
omitted) 36 refs.
Order from SLA \$1.60

62-10349

Trans. of das Papier (West Germany) 1961, v. 15,
no. 6, p. 222-229.

DESCRIPTORS: *Paper, Greases, Resistance,
Determination.

The article outlines observations made concerning
grease resistance and greaseproof papers. The test-
ing methods currently employed are described and
critically examined by taking into consideration ex-
perimentally obtained results. In establishing a
standard method for testing a paper consideration
must be given to the purpose the paper must serve.
(Materials-Paper, TT, v. 7, no. 9) (over)

62-10349

1. Werr, F.

SLA 62-18542-

Office of Technical Services

Stahn, Richard.
METHOD FOR QUANTITATIVE DETERMINATION
OF AIR CONTENT IN VISCOSE. Jan 64, 1630words
Order from LSA \$15.00

Trans. of [das] Papier (West Germany) 1961, v. 15,
no. 6, p. 229-231.

DESCRIPTORS: *Viscose, Air, Fibers (Synthetic),
Quantitative analysis, Paper industry.

(Materials--Paper, TT, v. 11, no. 11)

TT-64-12834

I. Stahn, R.
II. Literature Service
Associates, Bound Brook,
N. J.

Office of Technical Services

Sedivy, M. and Kubat, J.
BASIC FACTORS AFFECTING THE CRUSH
STRENGTH OF PAPERS MANUFACTURED FROM
HIGH YIELD PULP. [1961] 7p. (14 figs. omitted)
1 ref.

Order from SLA \$1.10

62-10277

Trans. of das Papler (West Germany) 1961, v. 15,
no. 6, p. 232-237.

DESCRIPTORS: *Paper, *Wood pulp, Manufacturing
methods, Quality control, Test methods.

The present treatise deals exclusively with the tech-
nique of manufacturing and converting the paper for
the fluting paper of corrugated board, the most im-
portant factors which affect the quality of the paper
are discussed. The basis for these conclusions was
provided by a long series of experiments carried out
(Materials--Paper, TT, v. 7, no. 9) (over)

62-10277

I. Sedivy, M.
II. Kubat, J.

Office of Technical Services

Poschmann, Franz.
DEFOAMING AGENTS IN THE PAPER INDUSTRY.
14 Sep 62, 12p. (figs. refs. omitted) 3 refs.
Order from SLA \$1.60

62-20005

Trans. des Papier (West Germany) 1961, v. 15, no. 7,
p. 295-301.

DESCRIPTORS: *Paper Industry, Foams, *Foaming
inhibitors, Surface-active substances.

(Materials--Paper, TT, v. 9, no. 9)

62-20005

1. Title: Defoaming agents
1. Poschmann, F.

Office of Technical Services

Werr, F.
THE DETERMINATION OF THE GREASE RESIST-
ANCE OF PAPERS, PT. II. Oct 61, 12p.
Order from SLA \$1.60 62-10398

Trans. of das Papier (West Germany) 1961, v. 15,
no. 7, p. 318-322.

DESCRIPTORS: *Paper, Greases, Resistance,
Determination.

See also 62-10349 -

also 62-14904 +
10108

(Materials-Papers, TT, v. 7, no. 9)

62-10398

I. Werr, F.

Office of Technical Services

TT-64-16520

L. Becker, K.

Becker, K.
THE GAS PERMEABILITY OF PLASTIC COATED
PAPERS WITH PARTICULAR REGARD TO PAPERS
COATED WITH POLYETHYLENE (Über die
Gasdurchlässigkeit Kunststoffbeschichteter,
Insbesondere Polyethylenbeschichteter Papiere). [13p]
(foreign text included)
Order from SLA \$1.60 TT-64-16520

Trans. of das Papier (West Germany) 1961, v. 15,
no. 9, p. 407-410.

(Materials--Paper, TT, v. 12, no. 4)

Office of Technical Services